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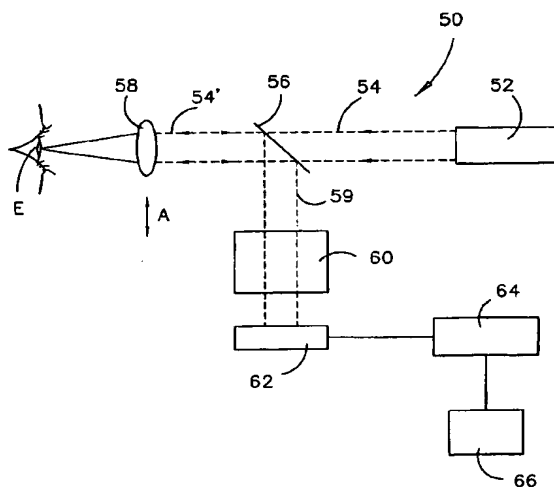
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(54) Title: APPARATUS AND METHOD FOR CORRECTING FOR ABERRATIONS IN A LENS SYSTEM



(57) Abstract: A method and apparatus for compensating for aberrations or distortions of an optical system such as an eye of a patient which is to be imaged by a camera is disclosed. Light passing through the optical system is detected by a charge coupled device (62) via an imaging system (60). Phase data relating to the light passing through the system is determined and a processor (64) processes the data so that a transformation is determined which transforms the data relating to the wavefront of the light so that the phase data is transformed to remove aberrations or distortions introduced by the optical system. Thus, clearer images of the fundus of an eye generated by light passing through the optical system of the eye and for determining distortions or aberrations introduced by the optical system of the eye are provided.

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